Sai Vegasena

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Experience

Security Intern at MWR Infosecurity an F-Secure Company 5/18 - 8/18
Performed web application and network segmentation tests on a real world attack surface, produced research on coverage guided fuzzing, and published a blog-post with my findings and research results.
Software Engineer at PiBrain 11/17 - 1/18
Seq2Seq implementation using tensorflow and neural machine translation to build a cost effective assistant
OSIRIS Lab Researcher\NYUSEC CTF Team Member 12/16 - Current
Participate in the cybersecurity research lab and NYU CTF Team. Currently help run CSAW, HSF.
CSAW 2017/2018: Organizer and Problem Writer **HSF 2017**: Problem Writer

Projects

KLEENEX 7/18 - 8/18
C++ wrapper around KLEE and AFL for intelligent, coverage guided fuzzing. Developed while doing research at MWR
1nsanity 4/18 - 8/18
LLVM pass that obfuscates against symbolic execution
Horus 1/25 - Current
Pluggable framework that queries and puts "the internet" into a gigantic DB; finds dangling domains and publicly facing docker registries. Bug Bounties on 2 Alexa top 1000 domains and reported bounties to 15 large corporations.
PiBrain Assistant 11/17 - 1/18
Modeling an encoder and decoder neural network to simulate language understanding; written with tensorflow and AWS.

Technologies/Skills

Binary Exploitation: BinaryNinja, KLEE, AFL, IDA, Angr, Pwntools, Pwndbg, GDB, Manticore, Apktool, Windbg
Web: Burp Suite, Kali Linux, Nessus, Metasploit, SQLmap, Heroku, Flask, MySQL/SQLAlchemy, Jekyll, Git
ML: Tensorflow, Openai API **Infra:** Docker **Creative:** Processing, Particles.js

Education

New York University; B.S in Computer Science 2016 - 2020 (expected)

Languages

C C++ Python LLVM Rust Go Bash HTML SQL CSS JavaScript